

## INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/001735
--

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 G01N 21/84 G01N 33/49 C12Q 1/06**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G01N 21/00, 21/84, G01N 33/00, 33/49, C12Q 1/00, 1/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AF Y Y Y	KR 2003-0018698 A (POSTECH FOUNDATION) 6 Mar. 2003 see abstract; figure 2; page 3, lines 33-49; page 3, lines 12-19; page 5, lines 11-15	1, 2, 8-10 3, 4 5
AD Y	JP 09-159612 A (KONICA CORP.) 20 Jun. 1997 see abstract; figures 1c and 2a; paragraphs 21 and 25	1-5, 8-10
AA A	US 5366867 A (NIHON MILLIPORE KOGYO) 22 Nov. 1994 see abstract; figure 1a; column 3, lines 10-19; column 5, lines 20-35	1-10
AB A	US 5811251 A (NIHON MILLIPORE KABUSHIKI KAISHA) 22 Sep. 1998 see the whole document	1-10
AE Y	JP 11-341994 A (MILLIPORE SA) 14 Dec. 1999 see abstract; figure 1; claims see the whole document	1 1-10

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  28 OCTOBER 2004 (28.10.2004)	Date of mailing of the international search report  <b>29 OCTOBER 2004 (29.10.2004)</b>
---	---

Name and mailing address of the ISA/KR   Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea  Facsimile No. 82-42-472-7140	Authorized officer  KIM, Sang Hee  Telephone No. 82-42-481-5974
--	---



## INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/001735
--

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AC A	KR 2001-0031949 A (KOWA COMPANY LTD.) 16 Apr. 2001 see the whole document	1-10
AG P, Y	KR 2004-0053651 A (POHANG UNIVERSITY OF SCIENCE AND TECHNOLOGY) 24 Jun. 2004 see page 2, 22-36; page 3, lines 9 - page 4, lines 5	1-10

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/001735

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2003-0018698 A	06.03.2003	NONE	
JP 09-159612 A	20.06.1997	NONE	
US 5366867 A	22.11.1994	DE 69311944 C0 EP 563858 A1 JP 05-328995 A2	14.08.1997 06.10.1993 14.12.1993
US 5811251 A	22.09.1998	EP 529084 A1 US 5627042 A DE 69219963 C0 JP 03-133328 B2	03.03.1993 06.05.1997 03.07.1997 05.02.2001
JP 11-341994 A	14.12.1999	EP 952211 A1 FR 2777903 A1 US 6043049 A	27.10.1999 29.10.1999 28.03.2000
KR 2001-0031949 A	16.04.2001	WO 9924831 A1 EP 1031834 A1 CN 1285916 T IL 0135934 A0 US 6667277 A	20.05.1999 30.08.2000 28.02.2001 20.05.2001 23.12.2003
KR 2004-0053651 A	24.06.2004	NONE	